







A call setup signaling message connects from a user device, that has a connection path through an access layer, to a SIP BE signaling entity via a SIP BE media entity.



The SIP BE signaling entity begins call setup procedures including checks of the signaling message for information needed for call authentication, security purposes including firewall functions, and QoS purposes.



After call authentication and determining adequate resources are available within the scalable SIP BE and the access link/network, the SIP BE signaling entity directs the SIP BE media entity to open the pinholes for media streams to the user device.



The SIP BE signaling entity then passes the SIP signaling message to the CCE.



The CCE manages the call flow process and checks if any service features are requested in the signaling message.





The CCE finds the destination BE media entity to route the call to the destination user device and determines if there are sufficient resources.

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The CCE then causes the call to be routed through the destination BE media entity to the destination user device.

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The destination user device responds back to the SIP BE signaling entity for the destination user device through the destination BE media entity and the SIP BE signaling entity then sends the response of the called party to the CCE.

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The CCE decides whether transcoding is needed and if needed invokes the appropriate SIP BE media entity in the transcoding task.

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The CCE enables the call between the initiating user BE media entity and the destination user BE media entity.

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The CCE issues call termination when either user ends the call and the BE media entities close the pinholes.







